

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 6,

Line 11, "Tbr14" should be -- Thr14 --.

Column 8,

Line 2, "LCDR2" should be -- LCDR1 --.

Line 31, " γ_5 " should be -- β_5 --.

Column 9,

Line 24, "FL2" should be -- FR2 --.

Line 57, "HR 9537" should be -- HB 9537 --.

Column 44,

Lines 27-29, "wherein said humanized mouse monoclonal antibody binds the same antigen as the mouse monoclonal antibody." should be -- wherein said preselected antigen is the same antigen recognized by the mouse monoclonal antibody. --.

Sequence Listing:

The Sequence Listing depicted at Columns 21-44 should read as follows:

SEQUENCE LISTING

```
<160> NUMBER OF SEQUENCE ID NOS: 122
<210> SEQ ID NO 1
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus
```

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<400> SEQUENCE: 1
His Asn Tyr Gly Ser Phe Ala Tyr
1 5

<210> SEQ ID NO 2
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 2
Gln Gln Ser Asn Ser Trp Pro His Thr
1 5

<210> SEQ ID NO 3
<211> LENGTH: 37
<212> TYPE: DNA
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 3
gggccccaggc ggcccgagctc cagatgacccc agtctcc

37

<210> SEQ ID NO 4
<211> LENGTH: 37
<212> TYPE: DNA
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 4
gggccccaggc ggcccgagctc gtgtatgaccc agtctcc

37

<210> SEQ ID NO 5
<211> LENGTH: 37
<212> TYPE: DNA
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 5
gggccccaggc ggcccgagctc gtgtatgaccc agtctcc

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<210> SEQ ID NO 6	
<211> LENGTH: 37	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 6	
gggcccaggc ggccggatc acactcacyc agtctcc,	37
<210> SEQ ID NO 7	
<211> LENGTH: 23	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 7	
cgttaataca ctgtttttt ttc	23
<210> SEQ ID NO 8	
<211> LENGTH: 23	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 8	
cgtttttttt cccccacatc ctc	23
<210> SEQ ID NO 9	
<211> LENGTH: 40	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 9	
gggcccaggc ggccggatc gtgttgtacgc agccggcctc	40
<210> SEQ ID NO 10	
<211> LENGTH: 40	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 10	
gggcccaggc ggccggatc gtgttgtacgc agccggcctc	40

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 11	
<211> LENGTH: 43	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 11	
gggccccaggc ggcccgagtc ggcctgactc agccatccctc cgt	43
<210> SEQ ID NO 12	
<211> LENGTH: 46	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 12	
gggccccaggc ggcccgagtc gagctgactc agccacccctc agtgtc	46
<210> SEQ ID NO 13	
<211> LENGTH: 40	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 13	
gggccccaggc ggcccgagtc gtgtgtgactc aatccggcttc	40
<210> SEQ ID NO 14	
<211> LENGTH: 40	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 14	
gggccccaggc ggcccgagtc atgtgtgactc agccccactc	40
<210> SEQ ID NO 15	
<211> LENGTH: 40	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 15	
gggccccaggc ggcccgagtc ggccggactc aagcagcttc	40

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 16	
<211> LENGTH: 40	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 16	
gggccccaggc ggcccgagtc gtgggtgacyc aggagccatc	40
<210> SEQ ID NO 17	
<211> LENGTH: 40	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 17	
gggccccaggc ggcccgagtc gtgtctgactc agccacatttc	40
<210> SEQ ID NO 18	
<211> LENGTH: 21	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 18	
gcagttaata tcagcccttt c	21
<210> SEQ ID NO 19	
<211> LENGTH: 44	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 19	
gctgccccac cagccatggc ccagggtgcag ctgggtgcagt ctgg	44
<210> SEQ ID NO 20	
<211> LENGTH: 44	
<212> TYPE: DNA	
<213> ORGANISM: Homo Sapiens	
<400> SEQUENCE: 20	
gctgccccac cagccatggc ccagatcacc ttgaaggagt ctgg	44

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 21
<211> LENGTH: 44
<212> TYPE: DNA
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 21
gtgtcccaac cagccatggc cgagggtgcag ctgggtgsagt ctgg 44

<210> SEQ ID NO 22.
<211> LENGTH: 44
<212> TYPE: DNA
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 22
gtgtcccaac cagccatggc ccagggtgcag ctgcaggagt cggg 44

<210> SEQ ID NO 23
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 23
cgcacatgttt tacacggccg tgtc 24

<210> SEQ ID NO 24
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: PCR Primer for PalB Leader Sequence

<400> SEQUENCE: 24
acctattgttt tacggcagcc g 21

<210> SEQ ID NO 25
<211> LENGTH: 24
<212> TYPE: DNA
<213> ORGANISM: Homo Sapiens

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<400> SEQUENCE: 25
cgcacagtc tacatggccg tgtc 34
<210> SEQ ID NO 26
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 26
Asp Thr Ala Val Tyr Tyr Cys Ala
1 5

<210> SEQ ID NO 27
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 27
Asp Thr Ala Met Tyr Tyr Cys Ala
1 5

<210> SEQ ID NO 28
<211> LENGTH: 69
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 28
gacacggccg tgcattactg tgccgcgtcat aacctccggca gttttgccta ctggggcccg 60
gg&accctg 69

<210> SEQ ID NO 29
<211> LENGTH: 42
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

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<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 29
gaggaggagg aggagactag ttttgcaca agattggc tc 42

<210> SEQ ID NO 30
<211> LENGTH: 73
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 30
gangattttg cagtgttatta ctgcacaca gatcaacgc tgccctcaca cgtttggcca 60
ggggaccaag ctg 73

<210> SEQ ID NO 31
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 31
ataacgactc actataggc g 21

<210> SEQ ID NO 32
<211> LENGTH: 72
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 32
gaggatgtg gggttttatta ctgcacacag agtacacgtt ggccctcacac gtttggccag 60
gggaccaagc tg 72

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<210> SEQ ID NO 33
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 33
Glu Asp Phe Ala Val Tyr Tyr Cys
1 5

<210> SEQ ID NO 34
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 34
Glu Asp Val Gly Val Tyr Tyr Cys
1 5

<210> SEQ ID NO 35
<211> LENGTH: 69
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 35
gatggaggctg atttattactg ccaacagagt aacagctggc ctcacacgtt cggcgagg 60
accacugctcg 69

<210> SEQ ID NO 36
<211> LENGTH: 50
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

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<400> SEQUENCE: 36
agagagagag agagagagag cgcgcgtctatg attatgaac attctgttagg

<210> SEQ ID NO 37
<211> LENGTH: 7
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 37
Asp Glu Ala Asp Tyr Tyr Cys
1 5

<210> SEQ ID NO 38
<211> LENGTH: 7
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 38
Phe Gly Gly Gly Thr Lys Lou
1 5

<210> SEQ ID NO 39
<211> LENGTH: 22
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<221> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 39
aagacacgctt tcggcgattgc a

27

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 40
gaggaggagg aggaggaggc gggcccaagg cggcccgatc 41

<210> SEQ ID NO 41
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 41
ggccatggct ggttgggcag c 21

<210> SEQ ID NO 42
<211> LENGTH: 42
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 42
gcagageccca satcttgta cactagtggc caggccggcc ag 42

<210> SEQ ID NO 43
<211> LENGTH: 41
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 43
gaggaggagg aggaggaggc tggccggctt ggccactagt g 41

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 44
<211> LENGTH: 130
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 44
Leu Glu Glu Ser Gly Gly Leu Val Lys Pro Gly Gly Ser Leu Lys
1 5 10 15
Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser Ser Tyr Asp Met Ser
20 25 30
Trp Val Arg Gln Ile Pro Glu Lys Arg Leu Glu Trp Val Ala Lys Val
35 40 45
Ser Ser Gly Gly Ser Thr Tyr Tyr Leu Asp Thr Val Gln Gly Arg
50 55 60
Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln Met
65 70 75 80
Ser Ser Leu Asn Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala Arg His
85 90 95
Asn Tyr Gly Ser Phe Ala Tyr Trp Gly Gln Gly Thr Leu Val Thr Val
100 105 110
Ser Ala Ala Lys Thr Thr Pro Pro Ser Val Tyr Pro Leu Ala Pro Gly
115 120 125
Ser Ala
130

<210> SEQ ID NO 45
<211> LENGTH: 109
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 45
Glu Leu Val Met Thr Gln Thr Pro Ala Thr Leu Ser Val Thr Pro Gly
1 5 10 15
Asp Ser Val Ser Leu Ser Cys Arg Ala Ser Gln Ser Ile Ser Asn His
20 25 30
Leu His Trp Tyr Gln Gln Lys Ser His Glu Ser Pro Arg Leu Leu Ile
35 40 45
Lys Tyr Ala Ser Gln Ser Ile Ser Gly Ile Pro Ser Arg Phe Ser Gly
50 55 60

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Ser Gly Ser Gly Thr Asp Phe Thr Leu Ser Ile Asn Ser Val Glu Thr
65 70 75 80
Glu Asp Phe Gly Met Tyr Phe Cys Gln Gln Ser Asn Ser Trp Pro His
85 90 95
Thr Phe Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala
100 105

<210> SEQ ID NO 46
<211> LENGTH: 57
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<221> NAME/KEY: misc_feature
<222> LOCATION: (1)...(57)
<223> OTHER INFORMATION: no A, T, C, or G

<400> SEQUENCE: 46
ggccccctgg ccadacgtgt gaggmnmmn mnmnctgt tggcagtaat acactgc 57

<210> SEQ ID NO 47
<211> LENGTH: 23
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 47
cctcacccgtt tggccagggg acc

23

<210> SEQ ID NO 48
<211> LENGTH: 21
<212> TYPE: DNA
<213> ORGANISM: Artificial Sequence

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<220> FEATURE:

<223> OTHER INFORMATION: Synthetic PCR Primer

<400> SEQUENCE: 48

atggatcgtag tcggaaacct c

21

<210> SEQ ID NO 49

<211> LENGTH: 109

<212> TYPE: PCT

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: Hybrid mouse - human sequence

<400> SEQUENCE: 49

Glu Leu Val Met Thr Gln Ser Pro Glu Phe Gln Ser Val Thr Pro Lys
1 5 10 15
Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Gly Thr Ser
20 25 30
Leu His Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile
35 40 45
Lys Tyr Ala Ser Gln Pro Val Phe Gly Val Pro Ser Arg Phe Arg Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Tyr Ser Leu Glu Ala
65 70 75 80
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Asn Ser Trp Pro His
85 90 95
Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr
100 105

<210> SEQ ID NO 50

<211> LENGTH: 118

<212> TYPE: PCT

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: Hybrid mouse - human sequence

<400> SEQUENCE: 50

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Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Ala Ser Ile Ser Arg Gly
20 25 30
Gly Tyr Tyr Trp Ser Trp Ile Arg Gln Tyr Pro Gly Lys Gly Leu Glu
35 40 45
Trp Ile Gly Tyr Ile His His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser
50 55 60
Leu Lys Ser Arg Val Thr Ile Ala Ile Asp Thr Ser Lys Asn Gln Leu
65 70 75 80
Ser Leu Arg Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95
Cys Ala Arg His Asn Tyr Gly Ser Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110
Leu Val Thr Val Ser Ser
115

<210> SEQ ID NO 51
<211> LENGTH: 118
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Hybrid mouse - human sequence

<400> SEQUENCE: 51
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Phe Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
20 25 30
Gly Tyr Tyr Trp Ser Trp Ile Arg His His Pro Gly Lys Gly Leu Glu
35 40 45
Trp Ile Gly Tyr Ile His His Arg Ala Ala Pro Tyr Tyr Asn Pro Ser
50 55 60
Leu Lys Ser Arg Val Thr Ile Ser Val Asp Thr Ser Arg Asn Gln Ile
65 70 75 80
Ser Leu Lys Leu Arg Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95

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Cys Ala Arg His Asn Tyr Gly Ser Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110
Leu Val Thr Val Ser Ser
115

<210> SEQ ID NO 52
<211> LENGTH: 118
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Hybrid mouse - human sequence

<400> SEQUENCE: 52
Gly Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 S 10 15
Thr Lou Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser Ser Gly
20 25 30
Gly Tyr Tyr Trp Ser Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu
35 40 45
Trp Ile Gly Tyr Ile His His Ser Ala Gly Thr Tyr Tyr Asn Pro Ser
50 55 60
Leu Lys Ser Arg Val Thr Met Ser Val Asp Thr Ser Lys Asn Gln Leu
65 70 75 80
Ser Leu Lys Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95
Cys Ala Arg His Asn Tyr Gly Ser Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110
Leu Val Thr Val Ser Ser
115

<210> SEQ ID NO 53
<211> LENGTH: 118
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Hybrid mouse - human sequence

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<400> SEQUENCE: 53
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15
Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Gly Ser Ile Ser Ser Gly
20 25 30
Gly Tyr Tyr Trp Ser Trp Ile Arg His His Pro Gly Lys Gly Leu Glu
35 40 45
Trp Ile Gly Tyr Ile His His Ser Ala Gly Thr Tyr Tyr Asn Pro Ser
50 55 60
Leu Lys Ser Arg Val Thr Met Ser Ala Asp Thr Ser Lys Asn Gln Leu
65 70 75 80
Ser Leu Lys Leu Ala Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr
85 90 95
Cys Ala Arg His Asn Tyr Gly Ser Phe Ala Tyr Trp Gly Gln Gly Thr
100 105 110
Leu Val Thr Val Ser Ser
115

<210> SEQ ID NO 54

<211> LENGTH: 117

<212> TYPE: PRT

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: Hybrid mouse - human sequence

<400> SEQUENCE: 54

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser
1 5 10 15
Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser Gly Phe
20 25 30
Ala Val Ser Trp Val Arg Gln Ala Pro Gly Gln Arg Phe Glu Trp Leu
35 40 45
Gly Gly Ile Val Ala Ser Leu Gly Ser Thr Asp Tyr Ala Gln Lys Phe
50 55 60
Gln Asp Lys Leu Thr Ile Thr Val Asp Glu Ser Thr Ala Thr Val Tyr
65 70 75 80
Met Glu Met Arg Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys
85 90 95

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Ala Arg His Asn Tyr Gly Ser Phe Ala Tyr Trp Gly Gln Gly Thr Leu.
100 105 110
Val Thr Val Ser Ser
115

<210> SEQ ID NO 55
<211> LENGTH: 109
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: Hybrid mouse - human sequence

<400> SEQUENCE: 55
Glu Leu Val Met Thr Gln Ser Pro Glu Phe Gln Ser Val Thr Pro Lys
1 5 10 15
Glu Thr Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile Gly Asn Ser
20 25 30
Leu His Trp Tyr Gln Gln Lys Pro Lys Gln Ser Pro Lys Leu Leu Ile
35 40 45
Lys Tyr Ala Ser Gln Pro Val Phe Gly Val Pro Ser Arg Phe Arg Gly
50 55 60
Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro
65 70 75 80
Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Ser Asn Ser Trp Pro His
85 90 95
Thr Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr
100 105

<210> SEQ ID NO 56
<211> LENGTH: 117
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 56
Glu Val Gln Leu Glu Glu Ser Gly Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser Ser Tyr
20 25 30
Asp Met Ser Trp Val Arg Gln Ile Pro Glu Lys Arg Leu Glu Trp Val
35 40 45
Ala Lys Val Ser Ser Gly Gly Ser Thr Tyr Tyr Leu Asp Thr Val
50 55 60
Gln Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr
65 70 75 80
Leu Gln Met Ser Ser Leu Asn Ser Glu Asp Thr Ala Met Tyr Tyr Cys
85 90 95
Ala Arg His Asn Tyr Gly Ser Phe Ala Tyr Trp Gly Gln Gly Thr Leu
100 105 110
Val Thr Val Ser Ala
115

<210> SEQ ID NO 57
<211> LENGTH: 4
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 57
Glu Arg Ala Thr
1

<210> SEQ ID NO 58
<211> LENGTH: 4
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 58
Glu Arg Gly Ser
1

<210> SEQ ID NO 59
<211> LENGTH: 5
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
<400> SEQUENCE: 59
Ser Ser Thr Leu Ala
 1           5

<210> SEQ ID NO 60
<211> LENGTH: 5
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 60
Ser Ser Phe Leu Ala
 1           5

<210> SEQ ID NO 61
<211> LENGTH: 7
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 61
Val Thr Ser Ser Tyr Leu Ala
 1           5

<210> SEQ ID NO 62
<211> LENGTH: 4
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 62
Pro Gly Gln Ala
 1

<210> SEQ ID NO 63
<211> LENGTH: 4
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
<400> SEQUENCE: 63
Pro Gly Lys Ala
1

<210> SEQ ID NO 64
<211> LENGTH: 4
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 64
Ser Arg Ala Thr
1

<210> SEQ ID NO 65
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 65
Arg Ala Ser Gln Ser Ile Ser Asn
1      5

<210> SEQ ID NO 66
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 66
Lys Tyr Ala Ser Gln Ser Ile Ser
1      5

<210> SEQ ID NO 67
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<400> SEQUENCE: 67
Arg Ala Ser Gln Asp Ile Gly Thr
1 5

<210> SEQ ID NO 68
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 68
Lys Tyr Ala Ser Gln Pro Val Phe
1 5

<210> SEQ ID NO 69
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 69
Arg Ala Ser Gln Asp Ile Gly Asn
1 5

<210> SEQ ID NO 70
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 70
Arg Ala Ser Gln Ser Ile Gly Trp
1 5

<210> SEQ ID NO 71
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

```
<400> SEQUENCE: 71
Lys Tyr Ala Ser Gln Ser Ile Ser
 1           5

<210> SEQ ID NO 72
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 72
Arg Ser Ser Gln Ser Ile Asn Ile
 1           5

<210> SEQ ID NO 73
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 73
Tyr His Ala Ser Lys Arg Ala Ser
 1           5

<210> SEQ ID NO 74
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 74
Arg Ala Ser Gln Ser Val Ser Asn Asn
 1           5

<210> SEQ ID NO 75
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens
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UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<400> SEQUENCE: 75
Tyr Arg Ala Ser Ser Arg Ala Thr
1 5

<210> SEQ ID NO 76
<211> LENGTH: 13
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 76
Arg Ser Ser Gln Ser Leu Val Tyr Ser Asp Gly Asn Thr
1 5 10

<210> SEQ ID NO 77
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 77
Tyr Lys Val Ser Asn Arg Asp Ser
1 5

<210> SEQ ID NO 78
<211> LENGTH: 13
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 78
Tyr Ala Ser Gln Ser Leu Val Tyr Thr Asp Gly Asn Thr
1 5 10

<210> SEQ ID NO 79
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<400> SEQUENCE: 79
Tyr Met Val Ser Asn Arg Asp Ser
1 5

<210> SEQ ID NO 80
<211> LENGTH: 23
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 80
Glu Leu Val Met Thr Gln Thr Pro Ala Thr Ieu Ser Val Thr Pro Gly
1 5 10 15
Asp Ser Val Ser Leu Ser Cys
20

<210> SEQ ID NO 81
<211> LENGTH: 23
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 81
Glu Leu Val Met Thr Gln Ser Pro Glu Phe Gln Ser Val Thr Pro Lys
1 5 10 15
Glu Thr Val Thr Ile Thr Cys
20

<210> SEQ ID NO 82
<211> LENGTH: 11
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 82
Arg Ala Ser Gln Ser Ile Ser Asn His Ieu His
1 5 10

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 83
<211> LENGTH: 11
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 83
Arg Ala Ser Gln Asp Ile Gly Thr Ser Leu His
1 5 10

<210> SEQ ID NO 84
<211> LENGTH: 11
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 84
Arg Ala Ser Gln Asp Ile Gly Asn Ser Leu His
1 5 10

<210> SEQ ID NO 85
<211> LENGTH: 15
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 85
Trp Tyr Gln Gln Lys Ser His Glu Ser Pro Arg Leu Leu Ile Lys
1 5 10 15

<210> SEQ ID NO 86
<211> LENGTH: 15
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 86
Trp Tyr Gln Gln Lys Pro Gly Gln Ser Pro Lys Leu Leu Ile Lys
1 5 10 15

UNITED STATES PATENT AND TRADEMARK OFFICE
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PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 87
<211> LENGTH: 7
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 87
Tyr Ala Ser Gln Ser Ile Ser
1 5

<210> SEQ ID NO 88
<211> LENGTH: 7
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 88
Tyr Ala Ser Gln Pro Val Phe
1 5

<210> SEQ ID NO 89
<211> LENGTH: 32
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 89
Gly Ile Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15
Leu Ser Ile Asn Ser Val Glu Thr Glu Asp Phe Gly Met Tyr Phe Cys
20 25 30

<210> SEQ ID NO 90
<211> LENGTH: 32
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<400> SEQUENCE: 90
Gly Val Pro Ser Arg Phe Arg Gly Ser Gly Ser Gly Thr Asp Phe Thr
1 5 10 15
Leu Thr Ile Tyr Ser Leu Glu Ala Glu Asp Phe Ala Val Tyr Tyr Cys
20 25 30

<210> SEQ ID NO 91
<211> LENGTH: 32
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 91
Gly Val Pro Ser Arg Phe Arg, Gly Ser Gly, Ser Gly, Thr Asp Phe Thr
1 5 10 15
Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
20 25 30

<210> SEQ ID NO 92
<211> LENGTH: 12
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 92
Phe Gly Gly Gly Thr Lys Leu Glu Ile Lys Arg Ala
1 5 10

<210> SEQ ID NO 93
<211> LENGTH: 12
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 93
Phe Gly Gln Gly Thr Lys Leu Glu Ile Lys Arg Thr
1 5 10

UNITED STATES PATENT AND TRADEMARK OFFICE
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APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 94

<211> LENGTH: 30

<212> TYPE: PRT

<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 94

Glu Val Gln Leu Glu Glu Ser Gly Gly Leu Val Lys Pro Gly Gly
1 5 10 15
Ser Leu Lys Leu Ser Cys Ala Ala Ser Gly Phe Ala Phe Ser
20 25 30

<210> SEQ ID NO 95

<211> LENGTH: 30

<212> TYPE: PRT

<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 95

Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Arg Lys Pro Gly Ser
1 5 10 15
Ser Val Arg Val Ser Cys Lys Ala Ser Gly Gly Thr Phe Ser
20 25 30

<210> SEQ ID NO 96

<211> LENGTH: 30

<212> TYPE: PRT

<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 96

Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Ala Ser Ile Ser
20 25 30

<210> SEQ ID NO 97

<211> LENGTH: 30

<212> TYPE: PRT

<213> ORGANISM: Homo Sapiens

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<400> SEQUENCE: 97
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Gln
1 5 10 15
Thr Leu Phe Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser
20 25 30

<210> SEQ ID NO 98
<211> LENGTH: 30
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 98
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15
Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Gly Ser Ile Ser
20 25 30

<210> SEQ ID NO 99
<211> LENGTH: 30
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 99
Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Lys Pro Ser Glu
1 5 10 15
Thr Leu Ser Leu Thr Cys Ser Val Ser Gly Gly Ser Ile Ser
20 25 30

<210> SEQ ID NO 100
<211> LENGTH: 5
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 100
Ser Tyr Asp Met Ser
1 5

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 101
<211> LENGTH: 5
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 101
Gly Phe Ala Val Ser
1 5

<210> SEQ ID NO 102
<211> LENGTH: 7
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 102
Arg Gly Gly Tyr Tyr Trp Ser
1 5

<210> SEQ ID NO 103
<211> LENGTH: 7
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 103
Ser Gly Gly Tyr Tyr Trp Ser
1 5

<210> SEQ ID NO 104
<211> LENGTH: 14
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 104
Trp Val Arg Gln Ile Pro Glu Lys Arg Leu Glu Trp Val Ala
1 5 10

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 105
<211> LENGTH: 14
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 105
Trp Val Arg Gln Ala Pro Gly Gln Arg Phe Glu Trp Leu Gly
1 5 10

<210> SEQ ID NO 106
<211> LENGTH: 14
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 106
Trp Ile Arg Gln Tyr Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> SEQ ID NO 107
<211> LENGTH: 14
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 107
Trp Ile Arg His His Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

<210> SEQ ID NO 108
<211> LENGTH: 14
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 108
Trp Ile Arg Gln His Pro Gly Lys Gly Leu Glu Trp Ile Gly
1 5 10

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 109
<211> LENGTH: 17
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 109
Gly Ile Val Ala Ser Leu Gly Ser Thr Asp Tyr Ala Gln Lys Phe Gln
1 5 10 15
Asp

<210> SEQ ID NO 110
<211> LENGTH: 16
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 110
Tyr Ile His His Ser Gly Ser Thr Tyr Tyr Asn Pro Ser Leu Lys Ser
1 5 10 15

<210> SEQ ID NO 111
<211> LENGTH: 16
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 111
Tyr Ile His His Arg Ala Ala Pro Tyr Tyr Asn Pro Ser Leu Lys Ser
1 5 10 15

<210> SEQ ID NO 112
<211> LENGTH: 16
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 112
Tyr Ile His His Ser Ala Gly Thr Tyr Tyr Asn Pro Ser Leu Lys Ser
1 5 10 15

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 113
<211> LENGTH: 32
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

<400> SEQUENCE: 113
Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn Thr Leu Tyr Leu Gln
1 5 10 15
Met Ser Ser Leu Asn Ser Glu Asp Thr Ala Met Tyr Tyr Cys Ala Arg
20 25 30

<210> SEQ ID NO 114
<211> LENGTH: 32
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 114
Lys Leu Thr Ile Thr Val Asp Glu Ser Thr Ala Thr Val Tyr Met Glu
1 5 10 15
Met Arg Asn Leu Arg Ser Asp Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> SEQ ID NO 115
<211> LENGTH: 32
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 115
Arg Val Thr Ile Ala Ile Asp Thr Ser Lys Asn Gln Leu Ser Leu Arg
1 5 10 15
Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

UNITED STATES PATENT AND TRADEMARK OFFICE
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PATENT NO. : 7,087,409 B2
APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<210> SEQ ID NO 116
<211> LENGTH: 32
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 116
Arg Val Thr Ile Ser Val Asp Thr Ser Arg Asn Gln Ile Ser Leu Lys
1 5 10 15
Leu Arg Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> SEQ ID NO 117
<211> LENGTH: 32
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 117
Arg Val Thr Met Ser Val Asp Thr Ser Lys Asn Gln Leu Ser Leu Lys
1 5 10 15
Leu Thr Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> SEQ ID NO 118
<211> LENGTH: 32
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 118
Arg Val Thr Met Ser Ala Asp Thr Ser Lys Asn Gln Leu Ser Leu Lys
1 5 10 15
Leu Ala Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> SEQ ID NO 119
<211> LENGTH: 11
<212> TYPE: PRT
<213> ORGANISM: Mus Musculus

UNITED STATES PATENT AND TRADEMARK OFFICE
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APPLICATION NO. : 10/078757
DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<400> SEQUENCE: 119
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ala
1 5 10

<210> SEQ ID: NO 120
<211> LENGTH: 11
<212> TYPE: PRT
<213> ORGANISM: Homo Sapiens

<400> SEQUENCE: 120
Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
1 5 10

<210> SEQ ID NO 121
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: LCDR3 variant portion

<221> NAME/KEY: VARIANT
<222> LOCATION: (3)...(6)
<223> OTHER INFORMATION: Xaa = any amino acid

<400> SEQUENCE: 121
Gln Gln Xaa Xaa Xaa Xaa Pro His Thr
1 5

<210> SEQ ID NO 122
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence

<220> FEATURE:
<223> OTHER INFORMATION: HCDR3 variant portion

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PATENT NO. : 7,087,409 B2
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DATED : August 8, 2006
INVENTOR(S) : Carlos F. Barbas, III et al.

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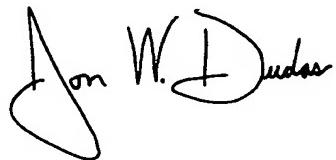
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

<221> NAME/KEY: VARIANT
<222> LOCATION: (1)...(4)
<223> OTHER INFORMATION: Xaa = any amino acid

<400> SEQUENCE: 122
Xaa Xaa Xaa Xaa Ser Phe Ala Tyr
1 5

Signed and Sealed this

Sixteenth Day of January, 2007



JON W. DUDAS
Director of the United States Patent and Trademark Office